JUN 2 8 2004 P

Docket: MA9658DIV3

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Tre Application of:

Fraser et al.

Group Art Unit: 1744

Serial No: 10/614,644

Filed:

July 7, 2003

Examiner: unknown

FOR: SYSTEMS AND METHODS FOR

TREATING PATIENTS WITH

PROCESSED LIPOASPIRATE CELLS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 I hereby certify that this correspondence is being deposited with the United States Postal Service, First Class mail, postage prepaid, in an envelope addressed to Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 23, 2004.

STOUT, UXA, BUYAN & MULLINS, LLP

Kenton R. Mullins, Reg. No. 36,331

# **TRANSMITTAL**

Sir:

Submitted herewith are

- ~ Return Receipt postcard;
- ~ Information Disclosure Statement;
- ~ PTO-1449 21 Sheets;
- ~ The Commissioner is hereby authorized to charge any needed fees to deposit account 50-1600.

Respectfully submitted,

Kenton R. Mullins Attorney for Applicants

Reg. No. 36,331

June 23, 2004 4 Venture, Suite 300 Irvine, CA 92618

Telephone: (949) 450-1750 Facsimile: (949) 450-1764

Docket: MA9658DIV3

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Kenton R. Mullins, Reg. No. 36,331

#### INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.56 and 1.97, Applicants wish to call the attention of the Examiner to the references that are listed on the attached PTO form 1449. In accordance with 37 .F.R. section 198(d)(1)(2), copies of all 291 references in the enclosed PTO form 1449 are not provided as they have previously been provided in U.S. Serial No. 10/316,127 filed December 9, 2002, for which the subject application claims priority

Applicants respectfully request that the cited references be listed on the face of any patent issuing from this application.

These citations do not constitute an admission that the references are relevant or material to the claims, but rather only constitute the closest art of which Applicants are presently aware.

Respectfully Submitted

Kenton R. Mullins Attorney for Applicants Registration No. 36,331

June 23, 2004 4 Venture, Suite 300 Irvine, CA 92618 949-450-1750

	INFO	RMATION DISCLOSUR	E CITATION	E	MA9658D Applicant(s)		10/2	514,64	4
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			TRADE	MES. PAT	ENT DOCUMENTS				
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE
		6,200,606	03/13/2001	Peterso	n et al.				
<u>.</u>		5,035,708	07/20/1991	Alchas	et al.				
		5,372,945	12/13/1994	Alchas	et al.				
•		5,786,207	07/28/1998	Katz et	al.				
		4,820,626	04/11/1989	William	ns et al.				<del></del>
		4,883,755	11/28/1989	Caraba	si et al.				
		5,486,359	01/23/1996	Caplan	et al.				
		4,458,678	07/10/1984	Yannas	et al.				
		5,837,235	11/17/1998	Mueller	et al.	·			<del></del>
		5,409,833	04/25/1995	Hu et al					
		6,316,247	11/13/2001	Katz et	al.				
				FOREIG	N PATENT DOCUMENTS			<del></del>	
	REF	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	Trans YES	NO
		EP0570331	11/18/1993	Europe					
		WO8702812	07/11/1987	WIPO				-	
		WO8601111	02/27/1986	WIPO					
					DOCUMENTS (Including		_	es, Etc.)	
		U.S. Application No. 09	9/9 <mark>36,665, filed 9/1</mark>	0/2001, K	atz et al., Adipose-Derive	d Stem Cells an	d Lattices		
		U.S. Application No. 09	9/952,522, filed 9/1	0/2001, K	atz et al., Adipose-Derive	d Stem Cells an	d Lattices		
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Form PTO-A820 (also form PTO-1449)

### INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
MA9658D\V 3	10/614,644
Applicant(s)	
Fraser et al.	
Filing Date	Group Art Unit
-1-1-7	71.1.

		////03	1/44		
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
	Avital, I., D. Inderbitzin, et al. (2001). "Isolation, cl stem cells." Biochem Biophys Res Commun 288(1):	haracterization, and transplantation o 156-64.	f bone marrow-derived hepatocyte		
	Carmeliet, P. and A. Luttun (2001). "The emerging Thromb Haemost 86(1): 289-97.	role of the bone marrow-derived sten	n cells in (therapeutic) angiogenesis."		
•	Castro-Malaspina, H., W. Ebell, et al. (1984). "Hun Res 154: 209-36.	nan bone marrow fibroblast colony-fo	rming units (CFU-F)." Prog Clin Bio		
	Coleman, S. R. (1995). "Long-term survival of fat to	ransplants: controlled demonstrations	i." Aesthetic Plast Surg 19(5): 421-5.		
	Coleman, S. R. (2001). "Structural fat grafts: the id	leal filler?" Clin Plast Surg 28(1): 111	. <b>-9.</b> .		
	Coleman, W. P., 3rd (1991). "Autologous fat transp	lantation." Plast Reconstr Surg 88(4)	: 736.		
·	Connolly, J. F. (1998). "Clinical use of marrow oste S257-66.	oprogenitor cells to stimulate osteoge	nesis." Clin Orthop(355 Suppl):		
	Eremia, S. and N. Newman (2000). "Long-term followed at least 12 months after receiving the last o	ow-up after autologous fat grafting: a of a minimum of two treatments." Der	nalysis of results from 116 patients matol Surg 26(12): 1150-8.		
	Fukuda, K. (2001). "Development of regenerative caengineering." Artif Organs 25(3): 187-93.	ardiomyocytes from mesenchymal ste	m cells for cardiovascular tissue		
	Guerrerosantos, J., A. Gonzalez-Mendoza, et al. (19 study in rats." Aesthetic Plast Surg 20(5): 403-8.	96). "Long-term survival of free fat g	rafts in muscle: an experimental		
	Horwitz, E. M., D. J. Prockop, et al. (1999). "Trans cells in children with osteogenesis imperfecta." Nat	plantability and therapeutic effects of Med 5(3): 309-13.	bone marrow-derived mesenchymal		
	Horwitz, E. M., D. J. Prockop, et al. (2001). "Clinic osteogenesis imperfecta." Blood 97(5): 1227-31.	al responses to bone marrow transpla	ntation in children with severe		
XAMINER		DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and 10t considered. Include copy of this form with next communication to applicant.

# Docket Number (Optional) Application Number MA9658DW 3 10/6/4,644 INFORMATION DISCLOSURE CITATION Applicant(s) Fraser et al. (Use several sheets if necessary) Filing Date **Group Art Unit** 7/7/03 . 1744 \*EXAMINER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) INITIA Huang, J. I., S. R. Beanes, et al. (2002). "Rat extramedullary adipose tissue as a source of osteochondrogenic progenitor cells." Plast Reconstr Surg 109(3): 1033-41; discussion 1042-3. Hutley, L. J., A. C. Herington, et al. (2001). "Human adipose tissue endothelial cells promote preadipocyte proliferation." Am J Physiol Endocrinol Metab 281(5): E1037-44. Kern, P. A., A. Knedler, et al. (1983). "Isolation and culture of microvascular endothelium from human adipose tissue." J Clin Invest 71(6): 1822-9. Lee, J. H., Z. Ilic, et al. (1996). "Cell kinetics of repair after allyl alcohol-induced liver necrosis in mice." Int J Exp Pathol 77(2): 63-72. Lee, P. E., R. C. Kung, et al. (2001). "Periurethral autologous fat injection as treatment for female stress urinary incontinence: a randomized double-blind controlled trial." J Urol 165(1): 153-8.

Mizuno, H., P. A. Zuk, et al. (2002). "Myogenic differentiation by human processed lipoaspirate cells." Plast Reconstr Surg 109(1): 199-209; discussion 210-1.

Murayama, T., O. M. Tepper, et al. (2002). "Determination of bone marrow-derived endothelial progenitor cell significance in angiogenic growth factor-induced neovascularization in vivo." Exp Hematol 30(8): 967-72.

Murry, C. E., R. W. Wiseman, et al. (1996). "Skeletal myoblast transplantation for repair of myocardial necrosis." J Clin Invest 98(11): 2512-23.

Muschler, G. F., H. Nitto, et al. (2001). "Age- and gender-related changes in the cellularity of human bone marrow and the prevalence of osteoblastic progenitors." J Orthop Res 19(1): 117-25.

Nishimori, M., Y. Yamada, et al. (2002). "Health-related quality of life of unrelated bone marrow donors in Japan." Blood 99(6): 1995-2001.

Orlic, D., J. Kajstura, et al. (2001). "Transplanted adult bone marrow cells repair myocardial infarcts in mice." Ann N Y Acad Sci 938: 221-9; discussion 229-30.

Orlic, D., J. Kajstura, et al. (2001). "Bone marrow cells regenerate infarcted myocardium." Nature 410(6829): 701-5.

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#### INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

not considered. Include copy of this form with next communication to applicant.

Docket Number (Optional) MA9658 D1 U 3	Application Number 10/614,644
Applicant(s) Fraser et al.	,
Filing Date 7/7/03	Group Art Unit

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	Palma, P. C., C. L. Riccetto, et al. (1997). "Repeated lipoinjections for stress urinary incontinence." J Endourol 11(1): 67-70.			
	Pittenger, M. F., A. M. Mackay, et al. (1999). "Multilineage potential of adult human mesenchymal stem cells." Science 284(5411): 143-7.			
-	Prockop, D. J., S. A. Azizi, et al. (2000). "Potential use of marrow stromal cells as therapeutic vectors for diseases of the central nervous system." Prog Brain Res 128: 293-7.			
	Rajnoch, C., J. C. Chachques, et al. (2001). "Cellular therapy reverses myocardial dysfunction." J Thorac Cardiovasc Surg 121(5): 871-8. t&artType=abs&id=a112937⌖=.			
	Shi, Q., S. Rafii, et al. (1998). "Evidence for circulating bone marrow-derived endothelial cells." Blood 92(2): 362-7.			
	Strauer, B. E., M. Brehm, et al. (2002). "Repair of infarcted myocardium by autologous intracoronary mononuclear bone marrow cell transplantation in humans." Circulation 106(15): 1913-8.			
	Takahashi, T., C. Kalka, et al. (1999). "Ischemia- and cytokine-induced mobilization of bone marrow-derived endothelial progenitor cells for neovascularization." Nat Med 5(4): 434-8.			
	Thomas, E. D. (1994). "Stem Cell Transplantation: Past, Present and Future." Stem Cells 12: 539-544.			
	Werlich, T., K. J. Stiller, et al. (1999). "Experimental studies on the stem cell concept of liver regeneration. II." Exp Toxicol Pathol 51(1): 93-8.			
	Yavorkovsky, L., E. Lai, et al. (1995). "Participation of small intraportal stem cells in the restitutive response of the liver to periportal necrosis induced by allyl alcohol." Hepatology 21(6): 1702-12.			
	Yin, L., D. Lynch, et al. (1999). "Participation of different cell types in the restitutive response of the rat liver to periportal injury induced by allyl alcohol." J Hepatol 31(3): 497-507.			
	Zuk, P. A., M. Zhu, et al. (2001). "Multilineage cells from human adipose tissue: implications for cell- based therapies." Tissue Eng 7(2): 211-28.			
EXAMINER	DATE CONSIDERED			

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

FORM 1449*	Docket Number	Application Number	
	MA9658 DIV 3	10/6/4,644	
INFORMATION DISCLOSURE STATEMENT	Applicant Fraser et al.		
IN AN APPLICATION			
	Filing Date	Group Art Unit	
(Use several sheets if necessary)	7/7/03	1744	

		U.S. PA	TENT DOCUMENTS	5			
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS		G DATE ROPRIATE
	5,486,359	January 23, 1996 (EXHIBIT 1)	Caplan, et al.				
	5,728,739	March 17, 1998 (EXHIBIT 2)	Ailhaud et al.		·		
	5,827,740	October 27, 1998 (EXHIBIT 3)	Pittenger				
	5,827,897	October 27, 1998 (EXHIBIT 4)	Ailhaud, et al.				
		FOREIGN	PATENT DOCUME	NTS			
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	SLATION
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	WO 98/04682	February 5, 1998 (EXHIBIT 5)	US				
<u>_</u>	OTHE	R DOCUMENTS (Includ	ing Author, Title, Date	e, Pertinent Pag	es, Etc.)		<del></del>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Considine, et al., "Paracrine stimulation of preadipocyte-enriched cell cultures by mature American Journal of Physiology 1996 270(5) E895-E899 (EXHIBIT 6)  Dani, et al., "Differentiation of embryonic stem cells into adipocytes in vitro," J. Cell Sci. 1279-1285 (EXHIBIT 7)  Entenmann, et al., "Relationship between replication and differentiation cultured human precursor cells," American Phys. Soc. 1996 270, C1011-C1016 (EXHIBIT 8)  Eslami Varzaneh, et al., "Extracellular Matrix Components Secreted by Microvascular E Stimulate Preadipocyte Differentiation In Vitro," Metabolism 1994 43 (7), 906-912 (EX Hauner, et al., "Endothelin-1 Inhibits the Adipose Differentiation of Cultured Human Act Precursor Cells," Metabolism 1994 43(2) pp 227-232 (EXHIBIT 10)  Hausman, et al., "The Influence of Extracellular Matrix Substrata on Preadipocyte Deve Serum-Free Cultures of Stromal-Vascular Cells," J. Anim. Sci. 1996 74(9), 2117-2128 (E Hui-Ling et al., "Increased expression of G in mouse embryo stem cells promotes term differentiation to adipocytes," American Physiological Society 1993 265(6), C1729-C17 (EXHIBIT 12)  Marko, et al., "Isolation of a Preadipocyte Cell Line from Rat Bone Marrow and Differe Adipocytes," Endocrinology 1995 136(10), 4582-4588 (EXHIBIT 13)  Shillabeer, et al., "A novel method for studying preadipocyte differentiation in vitro," In 1996 20(Supp. 3), S77-S83 (EXHIBIT 14)  Sorisky et al., "From preadipocyte to Adipocyte: Differentiation-Directed Signals of Inst				Sci. 1997 man adipo lar Endoth (EXHIBI n Adipocy Developme 8 (EXHI erminal C1735	110, ocyte nelial Cells T 9) yte ent in BIT 11) on to Obesity		

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conformance and not considered. Include copy of this form for next communication to the Applicant.

\*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449°	Docket Number Application Number MA9658D1V 3 10/6/4, 644		
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.		
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit	

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
		Vassaux, et al., "Proliferation and differentiation of Rat Adipose Precursor Cells in Chemically Defined Medium: Differential Action of Anti-Adipogenic Agents," Journal of Cellular Physiology 1994 161(2),
	 	249-256 (EXHIBIT 16)
		Wabitsch, et al., "Biological Effects of Human Growth Hormone in Rat Adipocyte Precursor Cells and Newly Differentiated Adipocytes in primary Culture," <i>Metabolism</i> 1996 Vol 45, No. 1 pp34-42 (EXHIBIT 17)
		Young et al., "Mesenchymal Stem Cells Reside Within the Connective Tissues of Many Organs,"  Developmental Dynamics 1995 202(2), 137-144 (EXHIBIT 18)
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XAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

<sup>\*</sup>Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	MA9658DN/3	Application Number 10/6/4 よら午午	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.		
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		U.S. PA	TENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
HALLIAL	5,591,625	January 7, 1997	Gerson, et al.		·			
	(Exhibit 19)							
	5,786,207	July 28, 1998	Katz, et al.					
	(Exhibit 20)							
	5,827,735	October 27, 1998	Young, et al.	·				
	(Exhibit 21)							
	5,827,740	October 27, 1998	Pittenger					
	(Exhibit 22)							
	5,906,934	May 25, 1999	Grande, et al.					
	(Exhibit 23)		Laboratoria at al	<u> </u>				
	5,908,784	June 1, 1999	Johnstone et al.					
	(Exhibit 24)	March 13, 2001	Peterson, et al.					
-	6,200,606 B1 (Exhibit 25)	March 13, 2001	Peterson, et al.					
·	(EXHIBIT 23)	FOREIGN	PATENT DOCUMEN	NTS				
	DOCUMENT NO.	DATE	COUNTRY			TRANSLATION		
	DOCOMENT NO.					YES NO		
	OTHE	R DOCUMENTS (Included)	ling Author, Title, Date	e, Pertinent Pag	es. Etc.)	<u> </u>		
	Benne	en, JH, et al., 1991 J. Ce	Il Sci. "Adipocytic ce	lls cultured from	n marrow have o	steogenic potential,"		
	1 00/Pt	11-131-130 (Frhihit 26)	,					
	Beresford, et al., 1986 Endo. "1,25- Dihydroxyvitamin D <sub>3</sub> and Human Bone-Derived Cells in Vitro Effects on Alkaline Phosphatase, Type I Collagen and Proliferation," 119:1776-1785 (Exhibit 27)  Bjornson, et al., 1999 Science "Turning Brain into Blood: A Hematopoetic Fate Adopted by Adult Neural Stem Cells in Vivo," 283:534-537 (Exhibit 28)  Bruder, et al., 1997 J. Cell Biochem. "Growth Kinetics, Self-Renewal, and the Osteogenic Potential Purified Human Mesenchymal Stem Cells During Extensive Subcultivation and Following				(Exhibit 4/)			
					opted by Adult			
					wal, and the Ost	eogenic Potential of		
					ltivation and Fo	llowing		
	Cryopreservation," 64:278-294 (Exhibit 29)  Butler-Browne, et al., 1990 Anat. Embryol. (Berl) "Myosin heavy and light chain expression during"							
	Butle	r-Browne, et al., 1990 A in skeletal muscle develo	<i>nat. Embryol. (Berl)</i> opment and precociou	s muscle matura	and right chair e	thyroid hormone,"		
	1 101.0	human skeletal muscle development and precocious muscle maturation induced by thyroid hormone," 181:513-522 (Exhibit 30)  Cheng S-L., et al., 1994 Endo "Differentiation of Human Bone Marrow Osteogenic Stromal Cells in						
	Chen	g S-L., et al., 1994 <i>Endo</i> : Induction of the Osteol	"Differentiation of H	luman Bone Ma examethasone "	птоw Usteogenia 134: 277-286 (Е	: Stromai Cells in Exhibit 31)		
	Vitro	: induction of the Osteol	Mast r henotype by De	, Augustin Joseph				
L								

EXAMINER	DATE CONSIDERED
CAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in

Informance and not considered. Include copy of this form for next communication to the Applicant.

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FORM 1449*	Docket Number	Application Number		
INFORMATION DISCLOSURE STATEMENT	MA9658Dt V3 10/6/4,644			
IN AN APPLICATION	Fraser et al.			
	Filing Date	Group Art Unit		
(Use several sheets if necessary)	7/7/03	1744		

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Chyun, et al., 1984 Endo. "Cortisol Decreases Bone Formation by Inhibiting Periosteal Cell
	Proliferation," 114:477-480 (Exhibit 32)
	Conget, PA and JJ Minguell 1999 J. Cell. Physiol "Phenotypical and Functional Properties of Human
	Bone Marrow Mesenchymal Progenitor Cells," 181:67-73 (Exhibit 33)
	Cooper, et al., 1999 J. Endocrinol. "Glucocorticoid activity, inactivity and the osteoblast,"
	163:159-164 (Exhibit 34)
	Denker, A.E., et al., 1995 Differentiation "Formation of cartilage-like spheroids by micromass cultures
	of murine C3H101/2 cells upon treatment with transforming growth factor-β1," 59: 25-34 (Exhibit 35)
	Denker, et al., 1999 Differentiation "Chondrogenic differentiation of murine C3H10T1/2 multipotential
	mesenchymal cells: I. Stimulation by bone morphogenetic protein-2 in high-density micromass
	cultures," 64:67-76 (Exhibit 36)
	Dimri, et, al., 1995 Proc. Natl. Acad. Sci. USA "A biomarker that identifies a senescent human cells in
	culture and in aging skin in vivo," 92: 9363-9367 (Exhibit 37)
	Ducy, et, al., 1997 Cell "Ost2/Cbfa1: A Transcriptional Activator of Osteoblast Differentiation," 89:747-
	754 (Exhibit 38)
	Ferrari G., et al., 1998 Science "Muscle Regeneration by Bone Marrow-Derived Myogenic Progenitors,"
	279: 1528-1530 (Exhibit 39)
	Frederikson and McKay 1988 J. Neurosci. "Proliferation and Differentiation of Rat Neuroepithelial
	Precursor Cells in vivo," 8:1144-1151 (Exhibit 40)
	Fridman, et al., 1992 Int. J. Cancer "Malignant Transformation of NIH-3T3 Cells After Subcutaneous co-
	Injection With A Reconstituted Basement Membrane (Matrigel)," 51(5), 740-44 (Exhibit 41)
	Grigoradis A., et al., 1988 J. Cell Biol. "Differentiation of Muscle, Fat, Cartilage, and Bone from
	Progenitor Cells Present in a Bone-derived Clonal Cell Population: Effect of Dexamethasone," 106:
	2139-2151(Exhibit 42)
	Guerriero, V and JR Florini 1980 Endocrinology "Dexamethasone Effects on Myoblast Proliferation and
	differentiation," 106:1198-1202(Exhibit 43)
<del></del>	Hall, BK 1981 "Intracellular and extracellular control of differentiation of cartilage and bone,"
	Histochem. J. 13:599-614(Exhibit 44)
	Jaiswal, et al., 1997 "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal
	Stem Cells In Vitro," J. Cell Biochem. 64:295-312(Exhibit 45)
	Johnstone B., et al., 1998 "In Vitro Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor
	Cells," Exp. Cell Res. 238: 265-272(Exhibit 46)
	Kania, et al., 1990 "The Drosophila segmentation gene runt encodes a novel nuclear regulatory protein
	that is also expressed in the developing nervous system," Genes Dev. 4:1701-1713(Exhibit 47)
	Kehlen, A. et al., 2000 J. Cell Biochem. "Increased Lymphocytic Aminopeptidase N/CD13 Promoter
	Activity After Cell-Cells Contact," 80:115-123(Exhibit 48)
<del></del>	Kosher, RA, et al., 1986 J. Cell Biol. "Collagen Gene Expression During Limb Cartilage
	Differentiation," 102:1151-1156(Exhibit 49)
<del></del>	
	Kuri-Harcuch, W. et al., 1984, Differentiation "Extracellular matrix production by mouse 3T3-F442A
<del></del>	cells during adipose differentiation in culture," 28(Exhibit 50)
	Lanier, L.L. et al, 1991 J. Immunol. "Molecular and Functional Analysis of Human Natural Killer Cell-
	Associated Neural Cells Adhesion Molecule (N-Cam/CD56),"146:4421-4426(Exhibit 51)
	Lawson-Smith, M.J. and McGeachie, J.K. 1998 J. Anat. "The identification of myogenic cells in
· · · · · ·	skeletal muscle, with emphasis on the use of tritiated thymidine autoradiography and desmin
	antibodies," 192:161-171 (Exhibit 52)

XAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

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FORM 1449*	Docket Number Application Number MA9658D: 以 10/6/4 , 44			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/3	Group Art Unit		

 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Leboy, et al., 1991 J. Cell Physiol. "Dexamethasone Induction of Osteoblast mRNAs in Rat Marrow Stromal Cell Cultures," 146:370-378 (Exhibit 53)
Lendahl, et al., 1990 Cell "CNS Stem Cells Express a New Class of Intermediate Filament Protein," 60:585-595 (Exhibit 54)
Lenoir, N. 2000 Science "Europe Confronts The Embryonic Stem Cell Research Challenge," 287:1425-1427 (Exhibit 55)
Lumelsky, N., et al. 2001 Science "Differentiation of Embryonic Stem Cells to Insulin-Secreting Structures Similar to Pancreatic Islets," 292:1389-1394. (Exhibit 56)
Lynch, et al., 1995, Exp. Cell Res. "The Influence of Type I Collagen on the Development and Maintenance of the Osteoblast Phenotype in Primary and Passaged Rat Calvarial Osteoblasts:
Modification of Expression of Genes Supporting Cell Growth, Adhesion, and Extracelluar Matrix Mineralization," 216:35-45 (Exhibit 57)
Malaval, et al., 1994 J. Cell. Physiol. "Cellular Expression of Bone-Related Proteins During In Vitro Ostegenesis in Rat Bone Marrow Stromal Cell Culture," 158:555-572 (Exhibit 58)
Manduca, et al., 1992 Eur. J. Cell Biol. "Chondrogenic differentiation in chick embryo osteoblast cultures," 57:193-201 (Exhibit 59)
Martin, et al., 1999 Exp. Cell Res. "Mammalian Chondrocytes Expanded in the Presence of Fibroblast Growth Factor 2 Maintain the Ability to Differentiate and Regenerate Three-Dimensional Cartilaginous Tissue," 253:681-688 (Exhibit 60)
Megeney, et al., 1996 Genes Dev. "MyoD is required for myogenic stem cell function in adult skeletal muscle," 10:1173-1183 (Exhibit 61)
Molkentin and Olson 1996 Curr. Opin. Genet. Dev. "Defining the regulatory networks for muscle development," 6:445-453 (Exhibit 62)
Mundlos, et al., 1997 Cell "Mutations Involving the Transcription Factor CBFA12 Cause Cleidocranial Dysplasia," 89:773-779 (Exhibit 63)
Nehls, A. and D Drenckhahn 1991 J. Cell Biol. "Heterogeneity of Microvascular Pericytes for Smooth Muscle Type Alpha-Actin," 113:147-154 (Exhibit 64)
Owen, TA, et al., 1990 J. Cell Physiol. "Progressive Development of the Rat Osteoblast Phenotype in Vitro: Reciprocal Relationships in Expression of Genes Associated with Osteoblast Proliferation and Differentiation During Formation of the Bone Extracellular Matrix," 143:420-430 (Exhibit 65)
Paul S.R., et al., 1991 <i>Blood</i> "Stromal Cell-Associated Hematopoiesis: Immortalization and Characterization of Primate Bone Marrow-Derived Stromal Cell Line," 77: 1723-33 (Exhibit 66)
Pittenger M.F., et al., 1999 Science "Multilineage Potential of Adult Human Mesenchymal Stem Cells," 284: 143-147 (Exhibit 67)
Prockop D.J. 1997 Science "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues," 276: 71-74 (Exhibit 68)
Rando, et al., 1995 Exp. Cell Res. "The Fate of Myoblasts Following Transportation into Mature Muscle," 220:383-389 (Exhibit 69)
Saalbach, A., et al., 1997 Cell and Tiss. Res. "The Fibroblast-specific MAb ASO2: a novel tool for detection and elimination of human fibroblasts," 290:593-599 (Exhibit 70)
Sanchez-Ramos, et al., 2000 "Adult Bone Marrow Stromal Cells Differentiate into Neural Cells in Vitro," Exp. Neurol. 164:247-256 (Exhibit 71)
Seale and Rudnicki 2000 Dev. Biol. "A New Look at the Origin, Function, and "Stem-Cell" Status of Muscle Satellite Cells," 218:115-124 (Exhibit 72)

EXAMINER	DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in			
conformance and not considered. Include copy of this form for next communication to the Applicant.			

<sup>\*</sup>Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number Application Number MA9658D1V3 10/6/4,644			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit		

	OTUED DOGUMENT
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Shukunami, C., et al., 1998 Exp. Cell Res. "Sequential Progression of the Differentiation Program by Bone Morphogenetic Protein-2 in Chondrogenic Cell Line ATDC5," 241:1-11 (Exhibit 73)
	Shukunami C., et. al., 1996 Journ. Of Cell Bio. "Chrondrogenic Differentiation of Clonal Mouse
	Embryonic Cell Line ATDC5 In Vitro: Differentiation-dependent Gene Expression of Parathyroid
	Hormone (PTH)/PTH-related Peptide Receptor," 133:2:457-468 (Exhibit 74)
	Silberstein, L., et al., 1986 Cell "Developmental Progression of Myosin Gene Expression in Cultured Muscle Cells," 46:1075-1081 (Exhibit 75)
,	Suga, S., et al., 1996, "Eur. J. Cell Biol. "Intracellular localization of antigens recognized by anti-
	vimentin monoclonal antibodies (mAbs): Cross-reactivities of anti-vimentin mAbs with other cellular components 70:84-91 (Exhibit 76)
	Tacchetti, C, et al., 1992 Exp Cell Res. "Cell Condensation in Chondrogenic Differentiation," 200:26-33 (Exhibit 77)
	Tapscott, et al., 1988 Science "MyoD1: A Nuclear Phosphoprotein Requiring a Myc Homology Region to Convert Fibroblasts to Myoblasts," 242:405-411 (Exhibit 78)
	Thornell, et al., 1984 J. Neurol. Sci. "Development of Fiber Types in Human Fetal Muscle," 66:107-115 (Exhibit 79)
	Totonoz, et al., 1995 Nucl. Acid Res "mPPARy2: tissue-specific regulator of an adipocyte enhancer," (Exhibit 80)
	Tsonis and Goetinck 1990 Exp. Cell Res. "Cell Density Dependent Effect of a Tumor Promoter on Proliferation and Chondrogenesis of Limb Bud Mesenchymal Cells," 190:247-253 (Exhibit 81)
	von der Mark, et al., 1977 Nature "Relationship between cell shape and type of collagen synthesised as chondrocytes lose their cartilage phenotype in culture," 267:531-532 (Exhibit 82)
	Vukicevic et al., 1992 Exp. Cell Res "Identification of Multiple Active Growth factors in Basement Membrane Matrigel Suggests Caution in Interpretation of Cellular Activity Related to Extracellular Matrix Components,". 202(1), 1-8 (Exhibit 83)
	Weintraub, et al., 1991 Science "The myoD Gene Family: Nodal Point During Specification of the Muscle Cell Lineage," 251:761-766 (Exhibit 84)
	Woodbury, et al., 2000 J. Neurosci. Res. Science "Adult Rat and Human Bone Marrow Stromal cells Differentiate Into Neurons," 61:364-370 (Exhibit 85)
	Young, 2000 Science "A Time for Restraint," 287:1424. (Exhibit 86)
	Zalin, RJ 1987 Exp. Cell Res. "The Role of Hormones and Prostanoids in the in Vitro Proliferation and differentiation of Human Myoblasts," 172:265-281. (Exhibit 87)
<del></del>	

XAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

\*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449°	Docket Number	Application Number		
	MA9658 DIU 3	10/6/4,644		
INFORMATION DISCLOSURE STATEMENT	Applicant			
IN AN APPLICATION	Fraser et al.			
	Filing Date	Group Art Unit		
(Use several sheets if necessary)	7/7/03	1744		

U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
		FOREIGN	PATENT DOCUMEN	TS				
	DOCUMENT NO.	DATE	COUNTRY	CLASS SUBCLASS			TRANSLATION	
						YES	NO	
	OTHE	R DOCUMENTS (Includi	ng Author, Title, Date,	Pertinent Page	s, Etc.)			
	osteob	m, Michael A., "Age-rel lasts," Biochem J. 333:7	87-794. (Exhibit 88)				1	
	Aso, F Nonex 213:36	Iisashi, et al., "A Preadip pression of GLUT-4 pro 59-375. (Exhibit 89)	ocyte Clonal Line fro tein during Adipocyte	Differentiation	"" Biochem. Bio	phys. Res.		
	Bernlohr, David A. et al., "Tissue Specific Expression of p422 protein, A putative Lipid Carrier, In Mouse Adipocytes," Biochem. Biophys. Res. Comun. 1985 132:850-855. (Exhibit 90)							
	Cheifetz, S. et al., "Endoglin Is a Component of the Transforming Growth Factor-B Receptor System in Human Endothelial Cells," J. Biol. Chem., 1992 267:19027-19030. (Exhibit 91)							
	J. Bio	Chen, Theresa L. et al., "1\alpha,25-Dihydroxyvitamin D3 Receptors in Cultured Rat osteoblast-like Cells,"  J. Biol. Chem. 1983 258:4350-4355. (Exhibit 92)						
	J. Biol	Enomoto, Hirayuki et al., "Cbfal Is a Positive Regulatory Factor in Chondrocyte Maturation,"  J. Biol. Chem. 2000 275:8695-8702. (Exhibit 93)						
	Herman, Ira M. and Patricia D'Amore, "Microvascular Pericytes Contain Muscle and Nonmuscle Actins," J. Cell Biol. 1985 101:43-52. (Exhibit 94)							
	Lucas	Lucas, Paul A. et al., "Mesenchymal Stem Cells From Granulation Tissue," J. Cell Biochem, 1993 17E:122, R212 (Exhibit 95)						
	Majeska, Robert J. and Gideon A. Rodan, "The Effect of 1,25(OH) <sub>2</sub> D <sub>3</sub> on Alkaline Phosphates in Osteoblastic Osteosarcoma Cells," J. Biol. Chem. 1982 257:3362-3365. (Exhibit 96)				in			
	Periasamy, Muthu et al., "Regulation of myosin heavy-chain gene expression during sleletal-muscle hypertrophy," Biochem. J. 1989 257:691-698. (Exhibit 97)							
	Poliar osteog	Poliard, a. et al., "Controlled Conversion of an Immortalized Mesodermal progenitor Cell Towards osteogenic, Chondrogenic, or Adipogenic Pathways," J. Cell Biol. 1995 130;1461-1472. (Exhibit 98)						
	Price, is Ass (Exhi	Price, Paul A. et al., "Matrix GLA Protein, A New $\gamma$ -Carboxyglutamic Acid-Containing Protein Which is Associated With The Organic Matrix of Bone," Biochem. Biophys. Res. Commun., 1983 117:765-771. (Exhibit 99)						
	Trans	o, Thomas A. and Helen loll plantation for Cell-media	ted Gene Therapy," J	Cell Biol 1994	125:1275-1287	. (Exhibit	100)	
	Weiner, Francis R. et al., "Regualtion of collagen Gene Expression in 3T3-L1 Cells. Efects of Adipocy Differentiation and Tumor necrosis Factor α" Biochem 1989 28:4094-4099. (Exhibit 101)				Adipocyte			

EXAMINER	DATE CONSIDERED .
EXAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in

<sup>\*</sup>Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

ORM 1449°	•	Docket Number	Application Number
		MA9658DIU3	101614,644
INFORMATION DISCLOSUR	E STATEMENT	Applicant	
IN AN APPLICATION	Fraser et al.		
	Filing Date	Group Art Unit	
(Use several sheets if n	ecessary)	7/7/03	1744

	Williams, Irene H. and S. Efthimios Polakis, "Differentiation of 3T3-L1 Fibroblasts to Adipocytes The Effect Of Indomethacin, Prostaglandin E <sub>1</sub> And Cyclic AMP On The Process of Differentiation," Biochem. Biophys. Res. Commun. 1977 77:175-186. (Exhibit 102)  Wise, Leigh S. and Howard Green, "Participation of One Isozyme of Cytosolic Glycerophosphate Dehydrogenase in the Adipose Conversion of 3T3 Cells," J. Biol. Chem. 1979 254:273-275. (Exhibit 103)
	Yoon, Kyonggeun et al., "Characterization of the Rat osteocalcin Gene: Stimulation of Promoter Activity by 1,25-Dihydroxyvitamin D <sub>3</sub> ," Biochem. 1988 27:8521-8526. (Exhibit 104)
	,
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<del></del>	
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EXAMINER

DATE CONSIDERED

(AMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in unformance and not considered. Include copy of this form for next communication to the Applicant.

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	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

		U.S.	PATENT DOCUMENTS			
EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
INITIAL	5,226,914 (Exhibit 105)	07/13/93	Caplan et al.			11/16/90
	5,736,396 (Exhibit 106)	04/07/98	Bruder et al.			01/24/95
	5,811,094 (Exhibit 107)	09/22/98	Caplan et al.			04/11/95
	5.817,050 (Exhibit 108)	10/06/98	Klein			05/29/97
	5,908,784 (Exhibit 109)	06/01/99	Johnstone et al.			11/15/96

 DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
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 W097/18299 (Exhibit 110)	05/22/97	PCT				Х
W097/39104 (Exhibit 111)	10/23/97	PCT		•		_ X
 W097/40137 (Exhibit 112)	10/30/97	PCT				Х
 W097/41208 (Exhibit 113)	11/06/97	PCT				Х
 WO98/20731 (Exhibit 114)	05/22/98	PCT				Х
 WO98/32333 (Exhibit 115)	07/30/98	PCT				Х
 WO98/51317 (Exhibit 116)	11/19/98	PCT				X
 WO99/01145 (Exhibit 117)	01/14/99	PCT				X
 WO99/03973 (Exhibit 118)	01/28/99	PCT				X
 WO99/11789 (Exhibit 119)	03/11/99	PCT				X

 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Bastard, J. P. et al., "A Mini-Liposuction Technique Adapted to the Study of Human Adipocyte Glucose Transport System," <i>Diabetologia</i> , 36(Suppl. 1):A135, 1993 (Exhibit 120)  Caplan, Amold I., "The Mesengenic Process," <i>Clinics in Plastic Surgery</i> , 21:429-35, 1994 (Exhibit 121)
Crandall, David L. et al., "Identification of Estrogen Receptor β RNA in Human Breast and Abdominal Subcutaneous Adipose Tissue," <i>Biochemical and Biophysical Research Communications</i> , 248:523-6, 1998 (Exhibit 122)

EXAMINER	DATE CONSIDERED
	I s in conformance with MPEP 609; draw line through citation of not in a communication to the Applicant.  Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449°	Docket Number MA9658 DIV 3	Application Number
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.	·
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Hauner, Hans et al., "Promoting Effect of Glucocorticoids on the Differentiation of Human Adipocyte Precursor Cells Cultured in a Chemically Defined Medium," <i>Journal of Clinical Investigation</i> , 84:1663-70, 1989 (Exhibit 123)
	Hauner H. et al., "Glucocorticoids and Insulin Promote the Differentiation of Human Adipocyte Precursor Cells into Fat Cells." Journal of Clinical Endocrinology and Metabolism, 64:832-5, 1987 (Exhibit 124)
	Johnson, P. R. et al., "Uncontrolled adipocyte proliferation is not the primary lesion in the genetically- obese Zucker rat." International Journal of Obesity, 5:563-70, 1981 (Exhibit 125)
	Killinger, D. W. et al., "Influence of Adipose Tissue Distribution on the Biological Activity of Androgens,"  Appals New York Academy of Sciences, 595:199-211, 1990 (Exhibit 126)
	Killinger, Donald W. et al., "The Relationship Between Aromatase Activity and Body Fat Distribution,"  Steroids, 50:61-72, 1987 (Exhibit 127)
	Lafontan, M. et al., "Réflexions sur une nouvelle approche de chirurgie plastique réparatrice: la réimplantation de fragments de tissu adipeux prélevés par liposuccion," <i>Ann. Chur. Plast. Esthet.</i> , 34:77-81, 1989 (Exhibit 128)
	Lam, Anson and Ronald Moy, "The Potential for Fat Transplantation," J. Dermatol. Surg. Oncol., 18:432-
	Lecoeur, L. and J. P. Ouhayoun, "In vitro induction of osteogenic differentiation from non-osteogenic mesenchymal cells." <i>Biomaterials</i> , 18:989-93, 1997 (Exhibit 130)
***	Loncar, D., "Ultrastructural analysis of differentiation of rat endoderm in vitro. Adipose vascular-stromal cells induce endoderm differentiation, which in turn induces differentiation of the vascular-stromal cells into chondrocytes," J. Submicrosc. Cytol. Pathol., 24:509-19, 1992 (Exhibit 131)
	Novakofski, Jan E., "Primary Cell Culture of Adipose Tissue," <i>Biology of the Adipocyte: Research</i> Agomaches, Van Nostrand Reinhold Company, NY, 1987-160-97 (Exhibit 132)
	Pedersen, S. B. et al., "Identification of oestrogen receptors and oestrogen receptor mRNA in numan adjacent tissue." Furguean, Journal of Clinical Investigation, 26:262-9, 1996 (Exhibit 133)
	Pettersson, Per et al., "Adipocyte Precursor Cells in Obese and Nonobese Humans," <i>Metabolism</i> , 34:808 12, 1985 (Exhibit 134)
	Ramsay, T. G. et al., "Pre-Adipocyte Proliferation and Differentiation in Response to Hormone Supplementation of Decapitated Fetal Pig Sera," <i>J. Anim. Sci.</i> , 64:735-44, 1987 (Exhibit 135)
	Rubens, F. D. et al., "Tissue Factor Expression by Cells Used for Sodding of Prosthetic Vascular Grafts,"  Journal of Surgical Research, 72:22-8, 1997 (Exhibit 136)
	Smahel, J., "Aspiration lipectomy and adipose tissue injection: pathophysiologic commentary," European Journal of Plastic Surgery, 14:126-31, 1991 (Exhibit 137)
	Springhorn, Jeremy P. et al., "Human Capillary Endothelial Cells from Abdominal Wall Adipose Tissue: Isolation Using an Anti-Pecam Antibody," <i>In Vitro Cellular &amp; Developmental Biology-Animal</i> , 31:473-81, 1995 (Exhibit 138)
	Tavassoli, Mehdi, "In Vivo Development of Adipose Tissue Following Implantation of Lipid-Depleted Cultured Adiposete" Experimental Cell Research, 137:55-62, 1982 (Exhibit 139)
	Williams, John T. et al., "Cells Isolated from Adult Human Skeletal Muscle Capable of Differentiating into Multiple Mesodermal Phenotypes," <i>The American Surgeon</i> , 65:22-6, 1999 (Exhibit 140)

EXAMINER	DATE CONSIDERED
	the ALDER COO. draw line through citation if not in
EXAMINER: Initial if reference considered, whether or not citation is conformance and not considered. Include copy of this form for next	s in conformance with MPEP 609; draw line through citation if not in
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<sup>\*</sup>Substitute Disclosure Statement Form (PTO-1449)

FORM 1449°	Docket Number	Application Number
	MA9658DIV 3	10/614,644
INFORMATION DISCLOSURE STATEMENT	Applicant	
IN AN APPLICATION	Fraser et al.	
	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Williams, Stuart K. et al., "Liposuction-derived human fat used for vascular graft sodding contains endothelial cells and not mesothelial cells as the major cell type," <i>Journal of Vascular Surgery</i> , 19:916-23, 1994 (Exhibit 141)
	Włodarski, Krzysztof H., "Section III. Basic Science and Pathology. Properties and Origin of Osteoblasts," Clinical Orthopaedics and Related Research, 252:276-93, 1990 (Exhibit 142)
	Ahrens, Patricia Buckley et al., "Stage-Related Capacity for Limb Chondrogenesis in Cell Culture,"  Developmental Biology, 1977, 60:69-82 (Exhibit 143)
	Alameddine, Hala S. et al., "Regeneration of Skeletal Muscle Fibers from Autologous Satellite Cells Multiplied In Vitro. An Experimental Model for Testing Cultured Cell Myogenicity," Muscle & Nerve, 1989, 12:544-55 (Exhibit 144)
	Angele, P. et al., "Engineering of Osteochondral Tissue with Bone Marrow Mesenchymal Progenitor Cells in a Derivatized Hyaluronan-Gelatin Composite Sponge," <i>Tissue Engineering</i> , 1999, 5:545-53 (Exhibit 145)
	Bailey, A. J. et al., "Age-Related Changes in the Biochemical Properties of Human Cancellous Bone Collagen: Relationship to Bone Strength," Calcified Tissue International, 1999, 65:203-10 (Exhibit 146)
	Barghorn, A. et al., "a-Smooth Muscle Actin Distribution in the Pulmonary Vasculature Comparing Hypoplastic and Normal Fetal Lungs," <i>Pediatric Pathology &amp; Laboratory Medicine</i> , 1998, 18:5-22 (Exhibit 147)
	Baylink, David J., "Glucocorticoid-Induced Osteoporosis," The New England Journal of Medicine, 1983, 309:306-8 (Exhibit 148)
	Becerra, José et al., "Demineralized Bone Matrix Mediates Differentiation of Bone Marrow Stromal Cells In Vitro: Effect of Age of Cell Donor," <i>Journal of Bone and Mineral Research</i> , 1996, 11:1703-14 (Exhibit 149)
	Beiser, Ian H. and Irvin O. Kanat, "Subchondral Bone Drilling: A Treatment for Cartilage Defects," Journal of Foot Surgery, 1990, 29:595-601 (Exhibit 150)
	Breen, Ellen C. et al., "TGFB Alters Growth and Differentiation Related Gene Expression in Proliferating Osteoblasts in Vitro, Preventing Development of the Mature Bone Phenotype," Journal of Cellular Physiology, 1994, 160:323-35 (Exhibit 151)
	Bruder, Scott P. et al., "Bone Regeneration by Implantation of Purified, Culture-Expanded Human Mesenchymal Stem Cells," <i>Journal of Orthopaedic Research</i> , 1998, 16:155-62 (Exhibit 152)
	Butnariu-Ephrat, Miriam et al., "Resurfacing of Goat Articular Cartilage by Chondrocytes Derived From Bone Marrow." Clinical Orthopaedics and Related Research, 1996, 330:234-43 (Exhibit 153)
	Campion, Dennis R., "The Muscle Satellite Cell: A Review," Internationals Review of Cytology, 1984, 87:225-51 (Exhibit 154)
·	Caplan, Amold I., "Mesenchymal Stem Cells," Journal of Orthopaedic Research, 1991, 9:641-50 (Exhibit 155)
	Caplan, Arnold I., "The Mesengenic Process," Clinics in Plastic Surgery, 1994, 21:429-35 (Exhibit 156)
	Carranza-Bencano, A. et al., "Comparative Study of the Reconstruction of Articular Cartilage Defects with Free Costal Perichondrial Grafts and Free Tibial Periosteal Grafts: An Experimental Study on Rabbits," Calcified Tissue International, 1999, 65:402-7 (Exhibit 157)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in		
conformance and not considered. Include copy of this form for next	t communication to the Applicant.	
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INFORMATION DISCLOSURE STATEMENT	Applicant		
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	Filing Date	Group Art Unit	
(Use several sheets if necessary)	7/7/03	1744	

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Chen, Xiaoli et al., "Differentiation-dependent expression of obese (ob) gene by preadipocytes and adipocytes in primary cultures of porcine stromal-vascular cells," <i>Biochimica et Biophysica Acta</i> , 1997, 1359:136-42 (Exhibit 158)
	Chimal-Monroy, Jesus and Lino Diaz de Leon, "Expression of N-cadherin, N-CAM, fibronectin tenascin is stimulated by TGF-β1, β2, β3 and β5 during the formation of precartilage condensations," <i>The International Journal of Developmental Biology</i> , 1999, 43:59-67 (Exhibit 159)
	Deng, Weiwen et al., "In Vitro Differentiation of Human Marrow Stromal Cells into Early Progenitors of Neural Cells by Conditions That Increase Intracellular Cyclic AMP," <i>Biochemical and Biophysical Research Communications</i> , 2001, 282:148-52 (Exhibit 160)
	Dennis, James E. et al., "A Quadripotential Mesenchymal Progenitor Cell Isolated from the Marrow of an Adult Mouse," <i>Journal of Bone and Mineral Research</i> , 1999, 14:700-9 (Exhibit 161)
	Dias, Peter et al., "The Molecular Basis of Skeletal Muscle Differentiation," Seminars in Diagnostic Pathology, 1994, 11:3-14 (Exhibit 162)
·	Diefenderfer, David L. and Carl T. Brighton, "Microvascular Pericytes Express Aggrecan Message Which is Regulated by BMP-2," <i>Biochemical and Biophysical Research Communications</i> , 2000, 269:172-8 (Exhibit 163)
	Eisenberg, Shlomo, "High density lipoprotein metabolism," Journal of Lipid Research, 1984, 25:1017-58 (Exhibit 164)
	Fajas, Lluis, et al., "Transcriptional control of adipogenesis," Current Opinion in Cell Biology, 1998, 10:165-73 (Exhibit 165)
	Famdale, Richard W. et al., "Improved quantitation and discrimination of sulphated glycosaminoglycans by use of dimethylene blue," <i>Biochimica et Biophysica Acta</i> , 1986, 883:173-7 (Exhibit 166)
	Fülöp, Csaba et al., "Expression of Alternatively Spliced Epidermal Growth Factor-like Domains in Aggrecans of Different Species," <i>The Journal of Biological Chemistry</i> , 1993, 268:17377-83 (Exhibit 167)
	Glowacki, J., "Influence of Age on Human Marrow," Calcified Tissue International, 1995, 56(Supp. 1):S50-1 (Exhibit 168)
	Grigoriadis, Agamemnon E. et al., "Analysis of chondroprogenitor frequency and cartilage differentiation in a novel family of clonal chondrogenic rat cell lines," <i>Differentiation</i> , 1996, 60:299-307 (Exhibit 169)
	Hardingham, Tim et al., "Studies on the Synthesis, Secretion and Assembly of Proteoglycan Aggregates by Chondrocytes," <i>Matrices and Cell Differentiation</i> , 1984, 151:17-29 (Exhibit 170)
	Haynesworth, S. E. et al., "Cell Surface Antigen on Human Marrow-Derived Mesenchymal Cells are Detected by Monoclonal Antibodies," <i>Bone</i> , 1992, 13:69-80 (Exhibit 171)
	Huss, Ralf, "Isolation of Primary and Immortalized CD34" Hematopoietic and Mesenchymal Stem Cells from Various Sources," Stem Cells, 2000, 18:1-9 (Exhibit 172)
	lwasaki, Motoki et al., "Regulation of Proliferation and Osteochondrogenic Differentiation of Periosteum- Derived Cells by Transforming Growth Factor-β and Basic Fibroblast Growth Factor," <i>Journal of Bone and Joint Surgery</i> , 1995, 77A:543-54 (Exhibit 173)
	Katz, Adam J. et al., "Emerging Approaches to the Tissue Engineering of Fat," Clinics in Plastic Surgery, 1999, 26:587-603 (Exhibit 174)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.		
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	MA9658D1U7	10/6/4.644
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	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Kirsch, Thorsten and Klaus von der Mark, "Remodelling of collagen types I, II and X and calcification of human fetal cartilage," Bone and Mineral, 1992, 18:107-17 (Exhibit 175)
Kosher, Robert A. and Michael Solursh, "Widespread Distribution of Type II Collagen during Embryonic Chick Development," Developmental Biology, 1989, 131:558-66 (Exhibit 176)
Lazarus, Hillard M. et al., "Human Bone Marrow-Derived Mesenchymal (Stromal) Progenitor Cells (MPCs) Cannot Be Recovered from Peripheral Blood Progenitor Cell Collections," Journal of Hematotherapy, 1997, 6:447-55 (Exhibit 177)
Leboy, Phoebe S. et al., "Ascorbic Acid Induces Alkaline Phosphatase, Type X Collagen, and Calcium Deposition in Cultured Chick Chondrocytes," <i>The Journal of Biological Chemistry</i> , 1989, 264:17281-6 (Exhibit 178)
Lee, Yun-Shain and Cheng-Ming Chuong, "Adhesion Molecules in Skeletogenesis: I. Transient Expression of Neural Cell Adhesion Molecules (NCAM) in Osteoblasts During Endochondral and Intramembranous Ossification," <i>Journal of Bone and Mineral Research</i> , 1992, 7:1435-46 (Exhlbit 179)
Lennon, Donald P. et al., "Human and Animal Mesenchymal Progenitor Cells from Bone Marrow: Identification of Serum for Optimal Selection and Proliferation," <i>In Vitro Cell. Dev. Biol Animal</i> , 1996, 32:602-11 (Exhibit 180)
Lev, Robert and S. S. Spicer, "Specific Staining of Sulphate Groups with Alcian Blue at Low pH," J. Histochem. Cytochem., 1964, 12:309-10 (Exhibit 181)
Long, Michael W. et al., "Age-Related Phenotypic Alterations in Populations of Purified Human Bone Precursor Cells." The Journals of Gerontology, 1999, 54A:B54-62 (Exhibit 182)
Lucas, P. A. et al., "Isolation of Putative Mesenchymal Stem Cells from Rat Embryonic and Adult Skeletal Muscle," In Vitro Cell Dev. Biol., 1992, 28:154A (Exhibit 183)
MacDougald, Ormond A. and M. Daniel Lane, "Transcriptional Regulation of Gene Expression During Adipocyte Differentiation," <i>Annu. Rev. Biochem.</i> , 1995, 64:345-73 (Exhibit 184)
Mullen, Richard J. et al., "NeuN, a neuronal specific nuclear protein in vertebrates," Development, 1992, 116:201-11 (Exhibit 185)
Nagle, R. B. et al., "Factor VII-Associated Antigen in Human Lymphatic Endothelium," Lymphology, 1987, 20:20-4 (Exhibit 186)
Nakahara, H. et al., "Bone and Cartilage Formation in Diffusion Chambers by Subcultured Cells Derived from the Periosteum," Bone, 1990, 11:181-8 (Exhibit 187)
Nakano, Hirotaka et al., "RT-PCR Suggests Human Skeletal Muscle Origin of Alveolar Soft-Part Sarcoma," Oncology, 2000, 58:319-23 (Exhibit 188)
O'Driscoll, Shawn W., "Current Concepts Review: The Healing and Regeneration of Articular Cartilage,"  Journal of Bone and Joint Surgery, 1998, 80A:1795-812 (Exhibit 189)
Olson, E. N. et al., "Know Your Neighbors: Three Phenotypes in Null Mutants of the Myogenic bHLH Gene MRF4," Cell, 1996, 85:1-4 (Exhibit 190)
Pairault, Jacques and Howard Green, "A study of the adipose conversion of suspended 3T3 cells by using glycerophosphate dehydrogenase as differentiation marker," <i>Proc. Natl. Acad. Sci. USA</i> , 1979, 76:5138-42 (Exhibit 191)
Park, S. R. et al., "Interconversion Potential of Clone Human Marrow Adipocytes In Vitro," Bone, 1999, 24:549-54 (Exhibit 192)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is conformance and not considered. Include copy of this form for next	I s in conformance with MPEP 609; draw line through citation if not in a communication to the Applicant.

<sup>\*</sup>Substitute Disclosure Statement Form (PTO-1449)

FORM 1449*	Docket Number MA9658D1V}	Application Number
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.	
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit

Pettersson, Per et al., "Cells in Human Adipose Tissue Developing into Adipocytes," Acta Med Scand, 1984, 215:447-51 (Exhibit 193)
Pierelli, Luca et al., "CD34+/CD105+ cells are enriched in primitive circulating progenitors residing in the G0 phase of the cell cycle and contain all bone marrow and cord blood CD34+/CD38 <sup>lowl*</sup> precursors," British Journal of Haematology, 2000, 108:610-20 (Exhlbit 194)
Price, Paul A., "GLA-Containing Proteins of Bone," Connective Tissue Research, 1989, 21:51-60 (Exhibit 195)
Price, Paul A. and Sharon A. Baukol, "1,25-Dihydroxyvitamin D <sub>3</sub> Increases Synthesis of the Vitamin K-dependent Bone Protein by Osteosarcoma Cells," <i>The Journal of Biological Chemistry</i> , 1980, 255:11660-3 (Exhibit 196)
Probst, M. et al., "Homologous bladder augmentation in dog with the bladder acellular matrix graft," BJU International, 2000, 85:362-71 (Exhibit 197)
Richardson, J. B. et al., "Repair of human articular cartilage after implantation of autologous chondrocytes," The Journal of Bone and Joint Surgery, 1999, 81:1064-8 (Exhibit 198)
Rickard, David J. et al., "Isolation and Characterization of Osteoblast Precursor Cells from Human Bone Marrow," Journal of Bone and Mineral Research, 1996, 11:312-24 (Exhibit 199)
Sarnat, Harvey B. et al., "Neuronal nuclear antigen (NeuN): a marker of neuronal maturation in the early human fetal nervous system," Brain & Development, 1998, 20:88-94 (Exhtbit 200)
Scott, Douglas M. et al., "Collagen Synthesis in Cultured Osteoblast-like Cells," Archives of Biochemistry and Biophysics, 1980, 201:384-91 (Exhibit 201)
Shalhoub, Victoria et al., "Downregulation of Cell Growth and Cell Cycle Regulated Genes during Chick Osteoblast Differentiation with the Reciprocal Expression of Histone Gene Variants," <i>Biochemistry</i> , 1989, 28:5318-22 (Exhibit 202)
Siffert, Robert S., "The Role of Alkaline Phosphatase in Osteogenesis," The Journal of Experimental Medicine, 1951, 93:415-26 (Exhibit 203)
Syrjälä, M. et al., "A flow cytometric assay of CD34-postitive cell populations in the bone marrow," British Journal of Haematology, 1994, 88:679-84 (Exhibit 204)
Tacchetti, C. et al., "In Vitro Morphogenesis of Chick Embryo Hypertrophic Cartilage," The Journal of Cell Biology, 1987, 105:999-1006 (Exhibit 205)
Tontonoz, Peter et al., "mPPARγ2: tissue-specific regulator of an adipocyte enhancer," Genes & Development, 1994, 8:1224-34 (Exhibit 206)
Trayhum, P. and Margaret Ashwell, "Control of white and brown adipose tissues by the autonomic nervous system," The Proceedings of the Nutrition Society, 1987, 46:135-42 (Exhibit 207)
Vandenburgh, Herman H. and Patricia Karlisch, "Longitudinal Growth of Skeletal Myotubes In Vitro in a New Horizontal Mechanical Cell Stimulator," In Vitro Cellular & Developmental Biology, 1989, 25:607-16 (Exhibit 208)
Wakitani, Shigeyuki et al., "Mesenchymal Cell-Based Repair of Large, Full-Thickness Defects of Articular Cartilage," The Journal of Bone and Joint Surgery, 1994, 76A:579-92 (Exhibit 209)
Wakitani, Shigeyuki et al., "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine," Muscle & Nerve, 1995, 18:1417-26 (Exhibit 210)
Weintraub, Harold et al. "Tissue-specific gene activation by MyoD: determination of specificity by cisacting repression elements," Genes & Development, 1994, 8:2203-11 (Exhibit 211)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.		

\*Substitute Disclosure Statement Form (PTO-1449)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449°	Docket Number	Application Number
	MA9658 DW 3	10/614,644
INFORMATION DISCLOSURE STATEMENT	Applicant Fraser et al.	
IN AN APPLICATION		
	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Yoo, Jung U. and Brian Johnstone, "The Role of Osteochondral Progenitor Cells in Fracture Repair," Clinical Orthopaedics and Related Research, 1998, 355S:S73-81 (Exhibit 212)
	Young, Henry E. et al., "Human Pluripotent and Progenitor Cells Display Cell Surface Cluster
	Differentiation Markers CD10, CD13, CD56, and MHC Class-I (44365)," Proc. Soc. Exp. Biol. Med., 1999, 221:63-71 (Exhibit 213)
	Zezulak, Kathleen M. and Howard Green, "Specificity of Gene Expression in Adipocytes," Molecular and Cellular Biology, 1985, 5:419-21 (Exhibit 214)
	Zohar, R. et al., "Analysis of intracellular osteopontin as a marker of osteoblastic cell differentiation and mesenchymal cell migration," European Journal of Oral Sciences, 1998, 106(Supp. 1):401-7 (Exhibit 215)
	Zuk, Patricia Z. et al., "Multilineage Cells from Human Adipose Tissue: Implication for Cell-Based Therapies," Tissue Engineering, 2001, 7:211-28 (Exhibit 216)
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EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

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INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION				
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit		

U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	DOCUMENT	NO.	DATE	NAME	CLASS	SUBCLASS		IG DATE ROPRIATE
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	DOCUMENT	NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRAN	SLATION
	-						YES	NO
			R DOCUMENTS (Includi		_			
		and Se	y, et al., 1985, "The Effe eded Hydroxyapatite Gr	owth," Calc. Tiss. Int	. 37:75. (Exhibi	t 217)		
		Fortier mesend	, Lisa, et al., 2000, "Isoli chymal stem cells," Am.	ation and chondrocyti  J. Vet. Res. 59:1182-	c differentiation 1187. (Exhibit 2	of equine bone : 218)		
		of Rab	gtse, Barbara, et al., 199 bit Marrow-derived Mes iit 219)	8, "Effect of Age and senchymal Progenitor	Sampling Site ( Cells," Journal	on the Chondro-( of Orthopaedic I	Osteogen Research	ic Potential 18:18-24.
	:	Pathol	mayer, Thomas et al., 19 . Immunopathol. 7:14-19	). (Exhibit 220)				•
		differe	ma, I. et al., 1998, "Adip ntiation," Differentiation	63:193-200. (Exhibi	it 221)			
	Zvaifler, et al., 2000, "Mesenchymal precursor cells in the blood of normal individuals," Arthritis Res. 2:477-488. (Exhibit 222)							
-		13:600	et al., 1999, "Human Sub A (Exhibit 225)	•				
		Smith	et al., 2000, "Mesenchyr t Multilineage Potential,	mal Stem Cells Derive " Journal of Investiga	ed From Bone M ative Medicine, 9	farrow And Hum 25A. (Exhibit 22	an Adipo 6)	ose Tissue
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	MA9658DIU 3	10/6/4, 644		
INFORMATION DISCLOSURE STATEMENT	Applicant			
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	Filing Date	Group Art Unit		
(Use several sheets if necessary)	7/7/03	1744		

		U.S. PA	TENT DOCUMENTS	3			
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS		IG DATE
	5,854,292	December 29, 1998	Ailhaud et al.				
		(Exhibit 235)					
· · · · · · · · · · · · · · · · · · ·		FOREIGN	PATENT DOCUMEN	ITS			
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRAN	SLATION
						YES	NO
	WO 99/28444 (Exhibit 223)	June 10, 1999	PCT				
	WO 99/02654 (Exhibit 224)	January 21, 1999	PCT				
	WO 00/53795 (Exhibit 231)	September 14, 2000	PCT				
	WO 01/62901 A2 (Exhibit 232)	August 30, 2001	PCT				
	WO 01/21767 (Exhibit 233)	March 29, 2001	PCT		*		
	WO 97/26326 (Exhibit 236)	July 24, 1997	PCT				
	OTHE	R DOCUMENTS (Including	ng Author, Title, Date	, Pertinent Page	es, Etc.)		
	Stashower et al., 1999, "Stromal progenitor cells present within liposuction and reduction abdominoplasty fat for autologous transfer to aged skin," Dermatologic Surgery, 25:12:945-949.  (Exhibit 227)  Strutt et al., 1996, "Growth and differentiation of human adipose stromal cells in culture," methods in						
	Molecular Medicine: Human Cell Culture Protools, 41-51. (Exhibit 228)						
	Tavassoli et al., 1981, "The Nature of Fibroblasts Derived From Adipose Tissue In-Vitro," Clinical Research, 29:5:871A. (Exhibit 229)						
	Van et al., 1978, "Complete Differentiation of Adipocyte Precursors," Cell Tissue, 195:317-329. (Exhibit 230)						
	Soda, et al., 1983, "Adipocyte stem cell: A brief review," Int. J. of Cell Cloning, 1:79-84. (Exhibit 234)						
	Ailhaud, et al., 1983, "Hormonal requirements for growth and differentiation of OB17 preadipocyte cells in vitro," Diabete & Metabolisme, Vol. 9:125-133. (Exhibit 237)						
	Ailhaud, et al., 1985, "Lipoprotiene lipase et differenciation adipocytaire," Reprod. Nutr. Develop., Vol. 25:153-158. (Exhibit 238)						
	Zuk, Patricia A. et al., "Human Adipose Tissue Is A Source Of Multipotent Stem Cells," Molecular Biology of the Cell. 2002, 13:4279-4295. (Exhibit 239)						
	Gimble, Jeffery M. et al., "Adipose tissue-derived therapeutics," Expert Opin. Biol., 2003, 3(5)705-713  (Exhibit 240)					)705-713	
	Safford, Kristine M. et al., "Neurogenic differentiation of murine and human adipose-derived stromal cells," Biochemical and Biophysical Research Communications, 2002, 371-379. (Exhibit 241)				stromal		

1	EXAMINER	DATE CONSIDERED
Ì		in conformance with MPEP 609; draw line through citation if not in